## **ABSTRACT**

A contact system for electrically engaging semiconductor components includes an interface board mountable to an automated test handler, and a floating substrate on the The interface board includes interface interface board. contacts in electrical communication with external test The substrate includes flexible segments, and circuitry. contactors having contact pads on opposing sides of the flexible segments configured to simultaneously electrically engage terminal contacts on the components, and the interface The contact pads include contacts on the interface board. conductive polymer layers that provide an increased This increased compliancy compliancy for the contactors. allows the contactors to accommodate variations in the dimensions and planarity of the terminal contacts on the In addition, the substrate includes grooves component. between the contactors which provide electrical isolation and allow the contactors to move independently of one another. An alternate embodiment contact system includes a Z-axis conductive polymer layer between the substrate and the interface board. Also provided are test methods employing the contact systems.

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